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(54) MAGNETIC RECORDING AND REPRODUCING DEVICE

(57)Abstract:

PROBLEM TO BE SOLVED: To simplify the circuitry of a magnetic recording and reproducing device having a stationary sound head and to prevent the deterioration in the frequency characteristic of recording sound signals by providing this device with a time base compressing circuit and a low frequency conversion circuit.

SOLUTION: The digital data of the input sound signals is compressed to a half according to a self-correlation method by a time base compressing circuit 16 and the compressed sound data is converted to have a 1/2 times frequency by the low frequency conversion circuit 18. The low frequency converted data is converted by a D/A 20 into analog signals of sound data. The analog signals are recorded on a video tape 32 by the stationary sound head 30 via a circuit device, such as signal compensator 24. Then, the sound signals are recorded by the stationary sound head on the continuously traveling video tape and, therefore, the circuitry is simplified. Since the sound data is subjected to time compression and low frequency conversion, the deterioration in the frequency characteristics of the sound signal to be recorded is prevented.

